



2002 Tactical Wheeled Vehicle Conference

28 January 2002



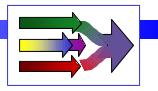


United States Army
Deputy Chief of Staff, G-4





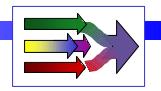
AGENDA



- *** TRANSFORMATION CHARTER**
- CURRENT OPERATIONAL ENVIRONMENT
- CURRENT ENABLERS
- FUTURE OPERATIONAL ENVIRONMENT
- FUTURE CAPABILITIES
- SUMMARY



TRANSFORMATION CHARTER





Enhance strategic responsiveness – meet deployment timelines

✓Improve Deployment Automation

DEPLOYMENT TIMELINE:

- √ 1 BDE in 96 hrs
- √ 1 DIV in 120 hrs
- ✓ 5 DIVs in 30 days





Reduce combat zone CS/CSS footprint

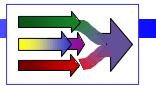
- ✓ Exploit Advanced Technology (Fuel Efficiency, GPS)
- √ Common Platforms
- ✓ Multimodal Platforms



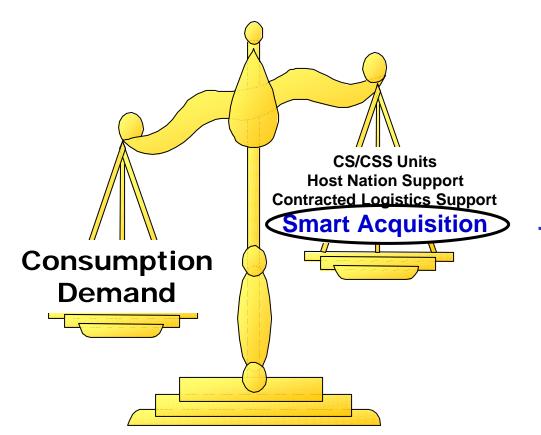
Reduce cost of logistics without reducing warfighting capability or readiness

- ✓ Balance acquisition and sustainment
- **✓** Embedded Diagnostics/Prognostics





TRANSFORMATION'S INFLUENCE ON ACQUISITION



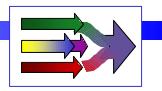
Desired characteristics

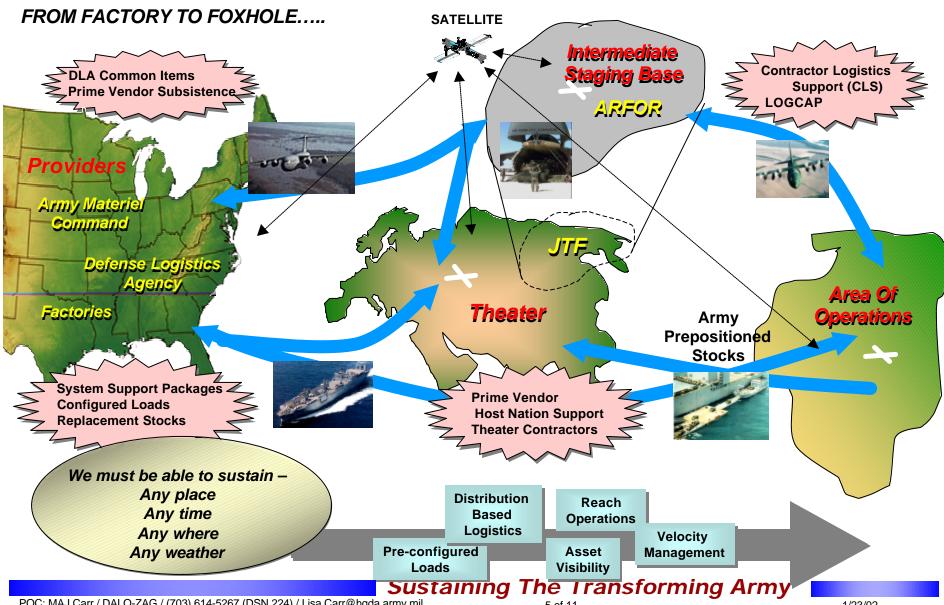
- Increased efficiency
- Increased reliability
- * Technology to reduce weight and consumption
- * Technology insertion to enhance performance
- Increased lethality
- * Increased survivability
- * Transportability

Smart acquisition practices will result in substantial reductions in CSS footprint, demand and cost....and help us meet our transformation goals.



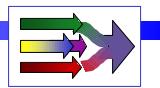
GLOBAL SUSTAINMENT







CURRENT ENABLERS



We have developed technologies to exploit reach-back and that facilitate split-based operations

Total Asset Visibility /
Automatic Identification
Technology

Data capture--identify, location, quantity



Driver's Vision Enhancer



Container Roll-In / Roll-Out Platform (CROP)



Reduces cargo trans-shipping time Eliminates blocking & bracing

Palletized Loading System



Enhances battlefield distribution, strategically configured loads

Diagnostics Prognostics REDI-PRO



Predicts weapon system failures Optimizes operational readiness Fwd Repair System -Heavy



Self-contained maintenance and repair capability

Transportation
Coordinator's Automated
Information for Movements
System (TCAIMS II)



Movement Tracking System

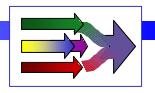


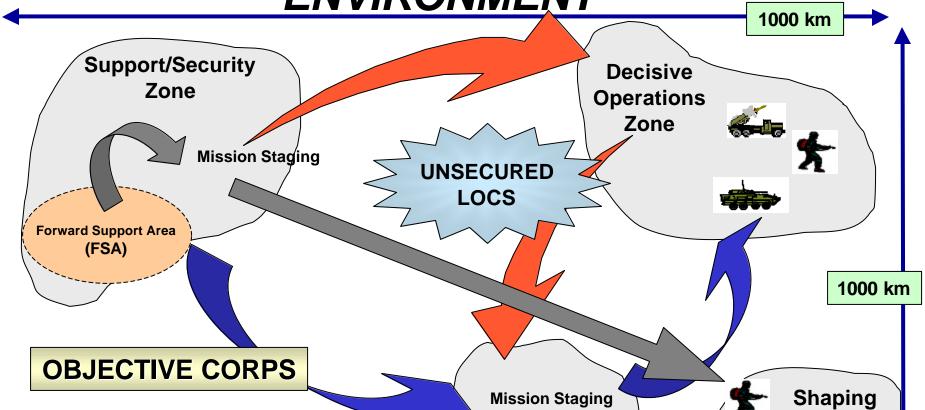
Enhances theater in-transit visibility

Enhances In-theater transportation and distribution



FUTURE OPERATING ENVIRONMENT





Characteristics of Future Operations:

- -- Expanded battlespace and time/distance impact replenishment
- -- Aerial sustainment primarily
- -- Multi-dimensional in construct
- -- Executed as a Combined Joint TF in an interagency environment
- -- Precise lethality and maneuver / distributed in design
- -- Contiguous and non-contiguous in execution
- -- Simultaneous blending of offensive, defense, stability & support missions
- -- Knowledge intensive

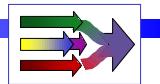
Sustaining The Transforming Army

Operations

Zone







DESIRED CHARACTERISTICS:

Pre-Configured Loads

Tailored
Prepared at factory / warehouse
Multi-modal w/o reconfiguration

Reach Operations

Leveraged to reduce logistics footprint in theater Requires assured communications Minimal port requirement

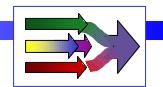
Distribution-Based Logistics

Maximizes velocity
Limit/eliminate Materiel Handling Equipment
Common delivery platform

Asset Visibility

Real-time information From factory to foxhole





VEHICLES TO SUPPORT FUTURE LOGISTICS

VERSATILE

RESPONSIVE

DEPLOYABLE

OBJECTIVE FORCE

SURVIVABLE

LETHAL

AGILE

SUSTAINABLE

Future vehicles must share the same characteristics as the Objective Force and specifically be.....

AS MOBILE AS THE FORCES WE SUPPORT

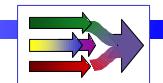
HIGHLY RELIABLE

INDEPENDENT OF MHE

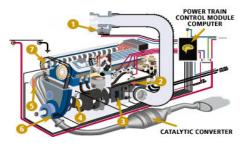
ADEQUATELY PROTECTED

FUEL EFFICIENT SITUATIONAL UNDERSTANDING





FUTURE VEHICLE CAPABILITIES



Perpetual Test Embedded Diagnostics/Prognostics



GPS



Petroleum, Oil & Lubricant (POL) Sensor



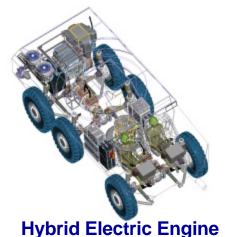
Driver's Vision Enhancer

- ✓ Reduced preventive maintenance requirement
- ✓ Reduced maintenance time
- ✓ No external Test, Measuring and Diagnostic Equipment (TMDE)
- ✓ No special tools
- ✓ Better embedded diagnostics, prognostics



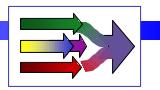
Smart Battery

Platform Design Modular Components Intelligent Components Common Components









- Increase reliability / fuel efficiency
- Emphasize sustainability
- Leverage diagnostics and prognostics
- Design / build for multi-modal configurations
- Continue strong industry partnerships

Industry Partnership Benefits DOD